PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference BU-039AQ999	TOR FURTHER see Notification of Transmittal of International Search Report					
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)				
PCT/US02/17866	07 JUNE 2002	NONE				
Applicant TRUSTEES OF BOSTON UNIVERS	ITY					
This international search report has bee according to Article 18. A copy is bein This international search report consis	n prepared by this International Searching Aug transmitted to the International Bureau.	thority and is transmitted to the applicant				
X It is also accompanied by a copy of each prior art document cited in this report.						
1. Basis of the report						
a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).						
b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:						
contained in the internation	contained in the international application in written form.					
filed together with the inter	filed together with the international application in computer readable form.					
furnished subsequently to the	furnished subsequently to this Authority in written form.					
furnished subsequently to the	furnished subsequently to this Authority in computer readable form.					
the statement that the subset	the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in					
the statement that the informa furnished.	the statement that the information recorded in computer readable form is identical to the written sequence listing has been					
2. Certain claims were found	Certain claims were found unsearchable (See Box 1).					
3. Unity of invention is lacking	Unity of invention is lacking (See Box II).					
4. With regard to the title,						
X the text is approved as subn	the text is approved as submitted by the applicant.					
the text has been established	d by this Authority to read as follows:					
5. With regard to the abstract,						
the text is approved as subm	the text is approved as submitted by the applicant.					
X the text has been established Box III. The applicant may, v search report, submit comme	l, according to Rule 38.2(b), by this Authority vithin one month from the date of mailing of t ents to this Authority.	as it appears in his international				
6. The figure of the drawings to be pu	blished with the abstract is Figure No. 7					
as suggested by the applican	t.	None of the firmer				
X because the applicant failed t	to suggest a figure.	None of the figures.				
because this figure better ch	aracterizes the invention.					



International application No.

PCT/US02/17866

Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

The technical features mentioned in the abstract do not include a reference sign between parentheses (PCT Rule 8.1(d)).

NEW ABSTRACT

The present invention relates to both a system and method for product and document authentication. The system used herein comprises one or more inks, at least one of which is either invisible to the naked eye or is fluorescent or luminescent, an optical (2, 3, 8) scanning component capable of detecting the signals emitted by all of said inks, and an information technology component for analyzing said signals. Given the large number of combinations of dyes, sizes and shapes of the markings made with said dyes, the ability to change the type, size and shape for the marking (5) for a given product, and the ability to keep track of the dyes and markings used for a given product, the system allows a nearly foolproof system for product authentication. The method involves the above system, or other combinations of inks, for authenticating a given product.

Form PCT/ISA/210 (continuation of first sheet(2)) (July 1998)*

INTERNATIONAL SEARCH REPORT

International application No. PCT/US02/17866

A CLASSIFICATION OF SUBJECT AS STORY				
A. CLASSIFICATION OF SUBJECT MATTER				
IPC(7) :G06K 19/06 US CL :285/491, 454, 457, 468, 494				
According to International Patent Classification (IPC) or to both national classification and IPC				
	LDS SEARCHED			
Minimum o	documentation searched (classification system follow	wed by classification annihals		
1		ved by classification symbols)		
U.S. :	285/491, 454, 457, 468, 494			
Documenta	tion conchad other than all and a single			
selve po 4	tion searched other than minimum documentation	to the extent that such documents are	included in the fields	
NONE				
Floatnania	J			
Liectronic	data base consulted during the international search	(name of data base and, where practicabl	e, search terms used)	
USPTO A	APS EAST	•		
C. DOC	TIMENITE CONCIDEDED TO DE DEL SYLVE			
- DOC	CUMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where	appropriate, of the relevant passages	Relevant to claim No.	
X	US 5,502,304 A (BERSON et al) 2	26 March 1996 (26.03.1996),	1-5,9-18,20,21,	
	column 3, lines 15-65; column 4, line	es 16-39; column 5, lines 4-16;	23-26,28,29,33,	
Y	column 6, line 38 - column 7, line 23	3.	40,41,46-48	
			6-8,19,22,27,30-	
			32,34-39,42-45	
			32,34-39,42-43	
Y	US 4,819,658 A (KOLODNER) 11 Ap	oril 1080 (11 04 1080) actions	(7.10.00.00.00	
_	6, line 65 - column 7, line 32.	111 1969 (11.04.1989), column	6,7,19,22,30-32,	
	0, fine 03 - column 7, fine 32.		37-39	
Y	TIC 4.652 142 A WHOVEDOUTED			
1	US 4,652,143 A (WICKERSHEIN	M et al) 24 March 1987	8,27,34-36	
	(24.03.1987), column 8, lines 41-61.			
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	·			
1				
X Further documents are listed in the continuation of Box C. See patent family annex				
	cial categories of cited documents:	"T" later document published after the inter date and not in conflict with the appli	mational filing date or priority	
	ument defining the general state of the art which is not considered e of particular relevance	the principle or theory underlying the	invention	
"E" earl	lier document published on or after the international filing date	"X" document of particular relevance; the	claimed invention cannot be	
"L" docu	mment which may throw doubts on priority claim(s) or which is	considered novel or cannot be considered when the document is taken alone	ed to involve an inventive step	
spec	d to establish the publication date of another citation or other cital reason (as specified)	"Y" document of particular relevance; the	claimed invention cannot be	
"O" document referring to an oral disclosure, use, exhibition or other with one or more other such documents, such combination being			hen the document is combined	
mea	obvious to a person skilled in the art			
P" document published prior to the international filing date but later "&" document member of the same patent family				
Date of the actual completion of the international search Date of mailing of the international search report				
Date of the actual completion of the international search Date of mailing of the international search report 16 OCTOBER 2002				
16 OCTOBER 2002				
Name and mailing address of the ISA/US Authorized officer				
Commissioner of Patents and Trademarks Box PCT				
Washington, D.C. 20231		Kimberly D. Nguyen		
Facsimile No	0. (703) 305-3230	Telephone No. (703) 305-1798	V _c V _c (i	

INTERNATIONAL SEARCH REPORT

International application No. PCT/US02/17866

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
Y	US 4,283,382 A (FRANK et al) 11 August 1981 (11.08.1981), column 1, lines 39-52.	42-45

Form PCT/ISA/210 (continuation of second sheet) (July 1998)*

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PATENT COOPERATION TREATY

BY: ____ RECEIVED

APR 0 7 2003

From the INTERNATIONAL SEARCHING AUTHORITY

To: CHARLES L. GAGNEBIN WEINGARTEN, SCHURGIN, GAGNEBIN & LEBOOVICI, LLP TEN POST OFFICE SQUARE BOSTON, MASSACHUSETTS 02109 PCT GAGNEBIN & LEBOVICI LLP

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION

	(PCT Rule 44.1)		
	Date of Mailing (day/month/year) 02 APR 2003		
Applicant's or agent's file reference BU-039AQ999	FOR FURTHER ACTION See paragraphs 1 and 4 below		
International application No. PCT/US02/17866	International filing date (day/month/year) 07 June 2002 (07.06.2002)		
Applicant TRUSTEES OF BOSTON UNIVERSITY	07 June 2002 (07.00.2002)		
	search report has been established and is transmitted herewith.		
Filing of amendments and statement under Article : The applicant is entitled, if he so wishes, to amend the	19: claims of the international application (see Rule 46).		
When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.			
Where? Directly to the International Bureau of WIPO, 34, chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 740.14.35			
For more detailed instructions, see the notes on th			
2. The applicant is hereby notified that no international se Article 17(2)(a) to that effect is transmitted herewith.	earch report will be established and that the declaration under		
3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:			
the protest together with the decision thereon has applicant's request to forward the texts of both the	been transmitted to the International Bureau together with the ne protest and the decision thereon to the designated Offices.		
	applicant will be notified as soon as a decision is made.		
reach the International Bureau as provided in Rules 90 bis preparations for international publication.	tional application will be published by the International Bureau. If the withdrawal of the international application, or of the priority claim, must 1 and 90 bis.3, respectively, before the completion of the technical		
and mation must be med it the applicant wishes to postpone	the entry into the national phase until 30 months from the priority date ithin 20 months from the priority date, perform the prescribed acts for		
In respect of other designated Offices, the time limit of 30 mon See the Annex to Form PCT/IB/301 and, for details about the Volume II, National Chapters and the WIPO Internet site.	aths (or later) will apply even if no demand is filed within 19 months. applicable time limits, Office by Office, see the PCT Applicant's Guide,		
Name and mailing address of the ISA/US Commissioner for Patents	Authorized officer		
Box PCT Washington, D.C. 20231 Facsimile No. (703) 305-3230	Kimberly D. Nguyen Telephone No. (703) 305-1798		
orm PCT/ISA/220 (April 2002)	(See notes on accompanying sheet)		

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